



NWS Spring Flood Outlook for Iowa

February 25, 2022
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Key Messages

- Near to below normal spring flood threat for the state.
- Future weather—including amount, frequency and extent of precipitation as well as rate of snowmelt—can be big factors in any potential spring flood threat.

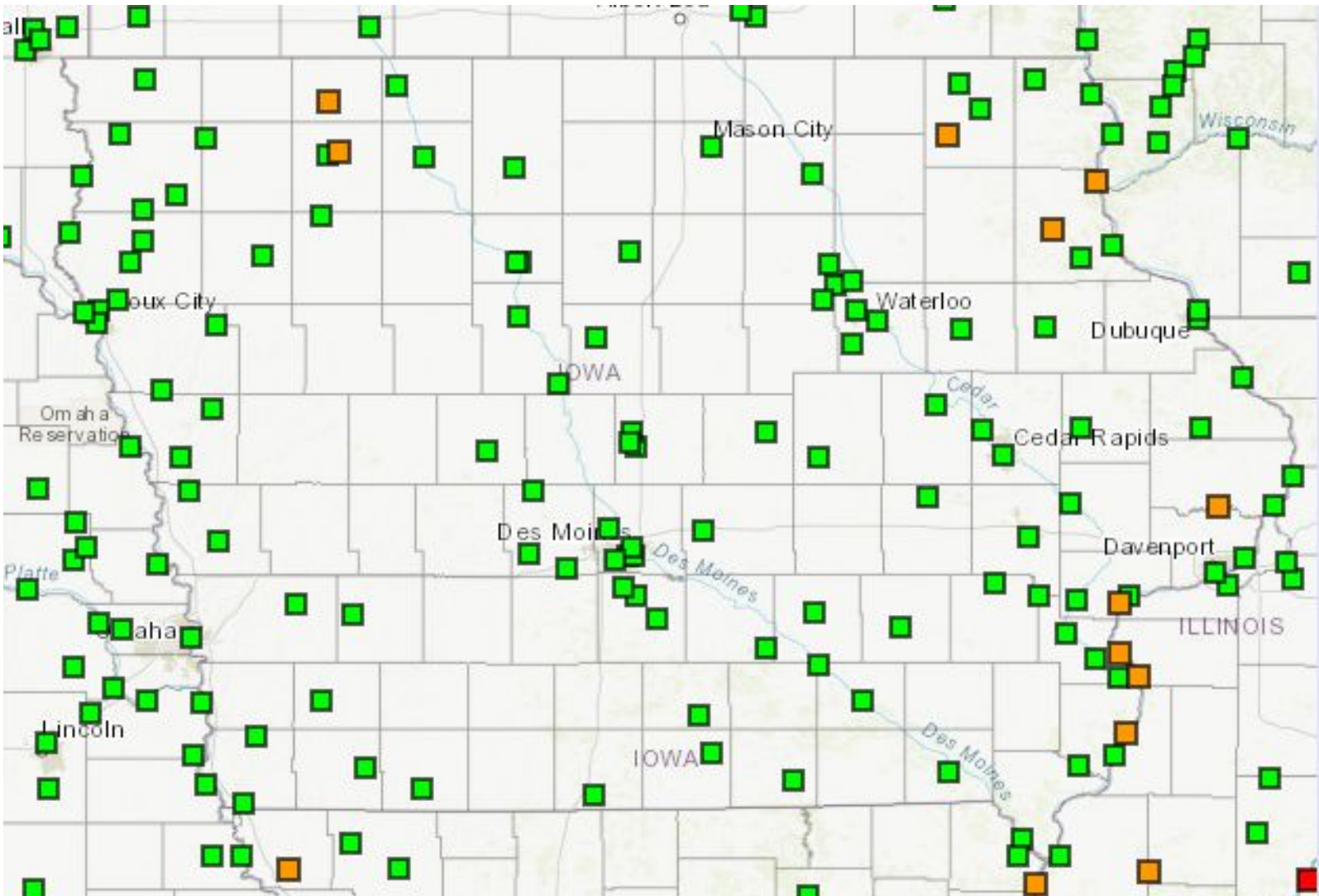
NEW

Important Updates

- Second spring flood outlook.

Next Scheduled Briefing

- None scheduled at this time.





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As of 2/23

River	Spring Flood Risk
Mississippi River above Rock River (in Illinois)	Near to Slightly Above Normal
Mississippi River below Rock River (in Illinois)	Near to Slightly Above Normal
Missouri River	Below Normal
Tributaries to Mississippi River in Eastern Iowa	Near to Below Normal
Tributaries to Mississippi River in Central Iowa	Near to Below Normal
Tributaries to Missouri River in Iowa	Below Normal

Future weather—including amount, frequency and extent of precipitation as well as rate of snowmelt—can be big factors in any potential spring flood threat.

National Weather Service 2022 Spring Flood Outlook Schedule

Thursday, February 10, 2022

Thursday, February 24, 2022

Thursday, March 10, 2022



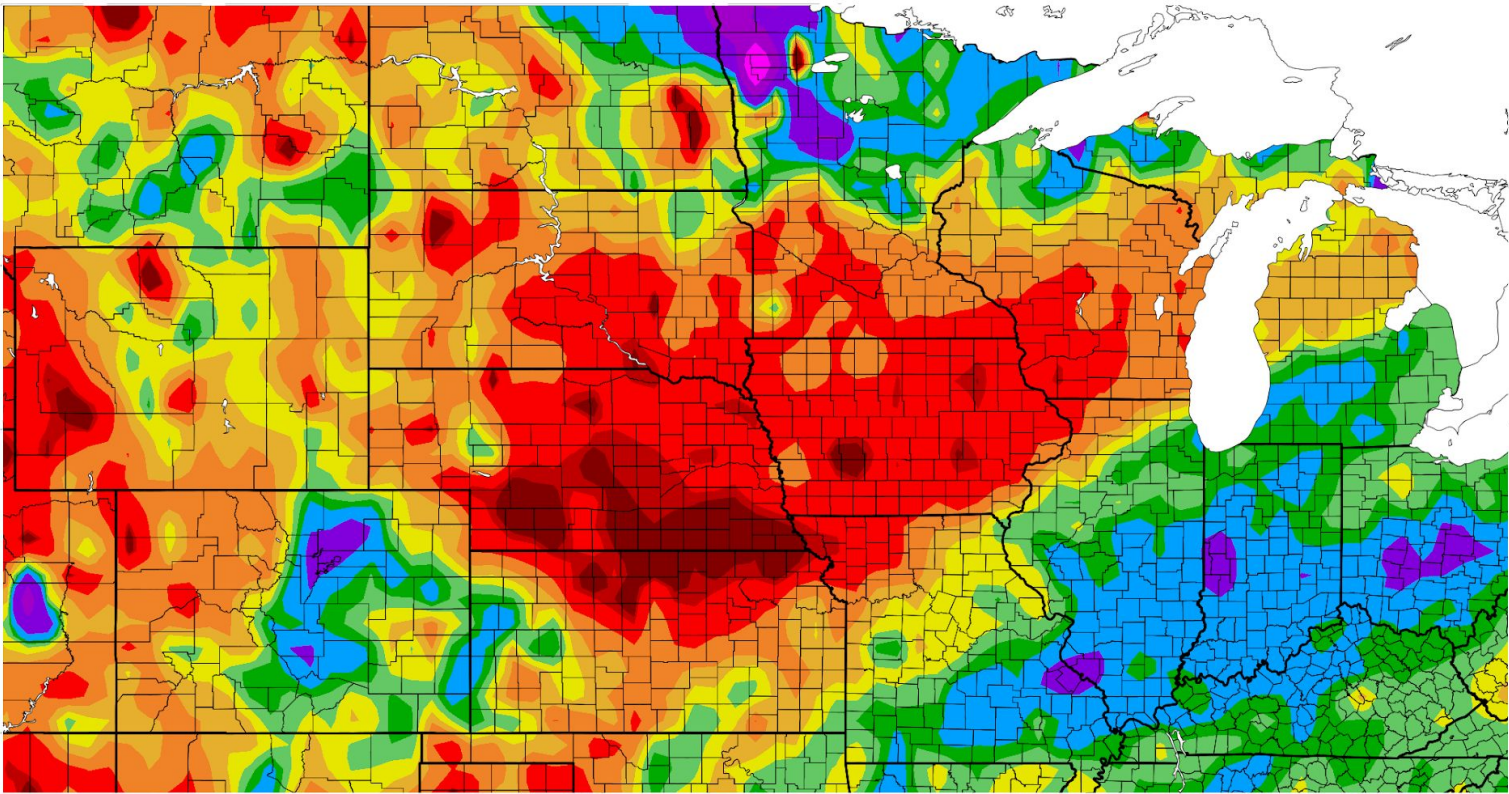


Precipitation % of Normal

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Past 30 Days

Percent of Normal Precipitation (%)
1/26/2022 – 2/24/2022



Very dry across much of Iowa



Generated 2/25/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers



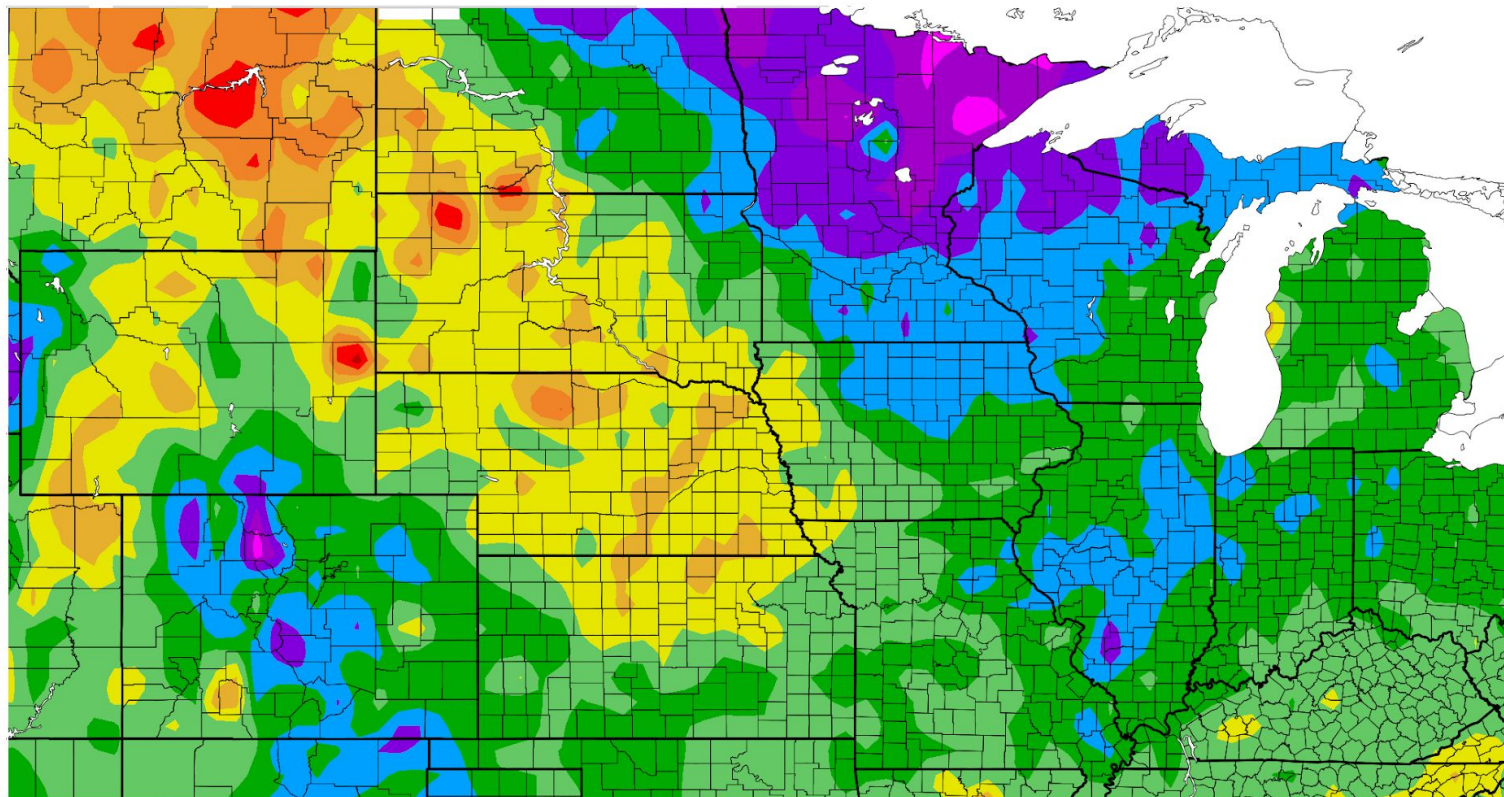


Temperature Dep from Normal

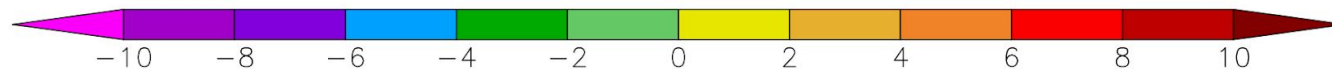
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Past 30 Days

Departure from Normal Temperature (F)
1/26/2022 – 2/24/2022



Near to below normal across much of Iowa, except the west



Generated 2/25/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers



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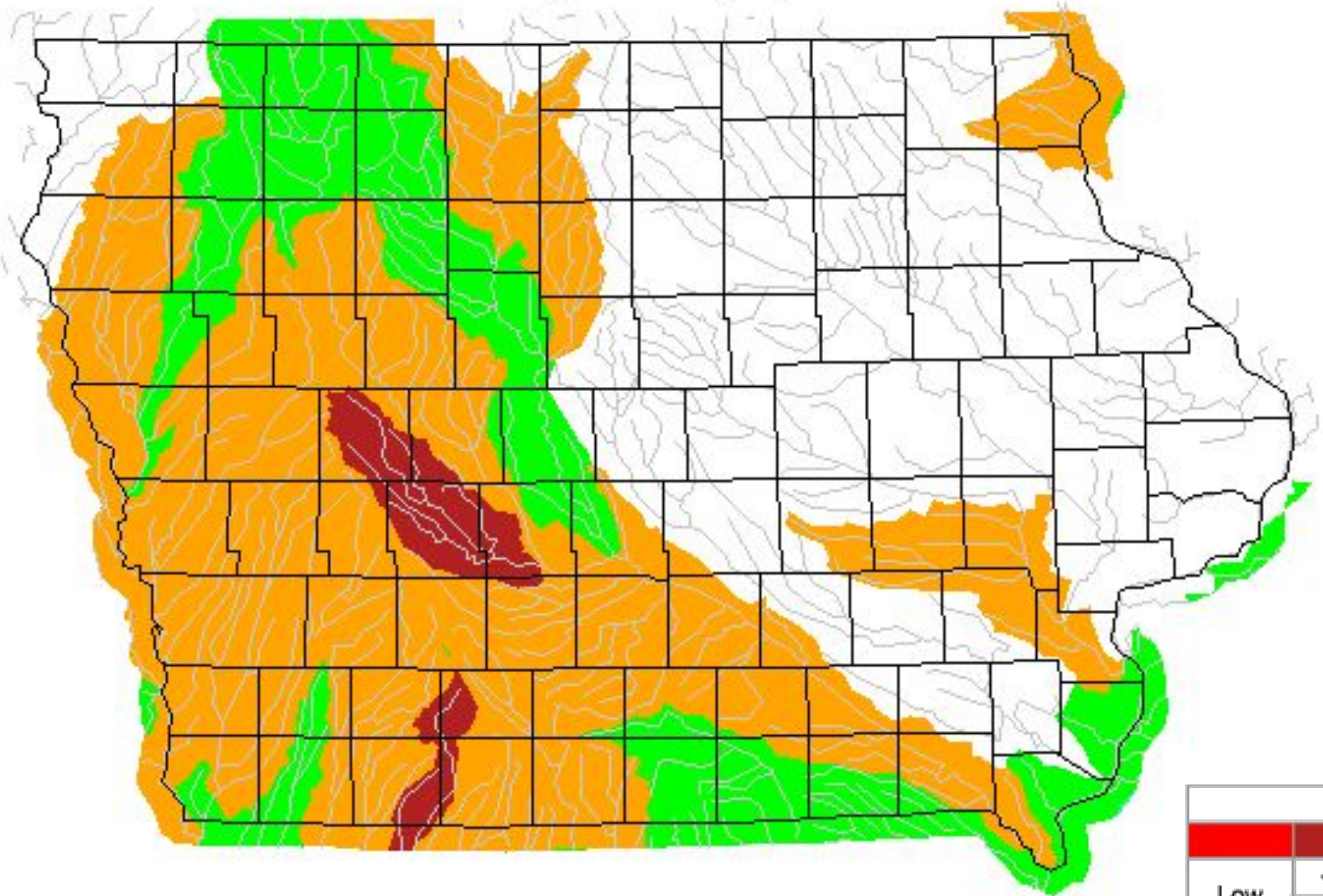
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Des Moines, Iowa**



River Levels

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Thursday, February 24, 2022



Near normal stream flows,
with some below normal



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

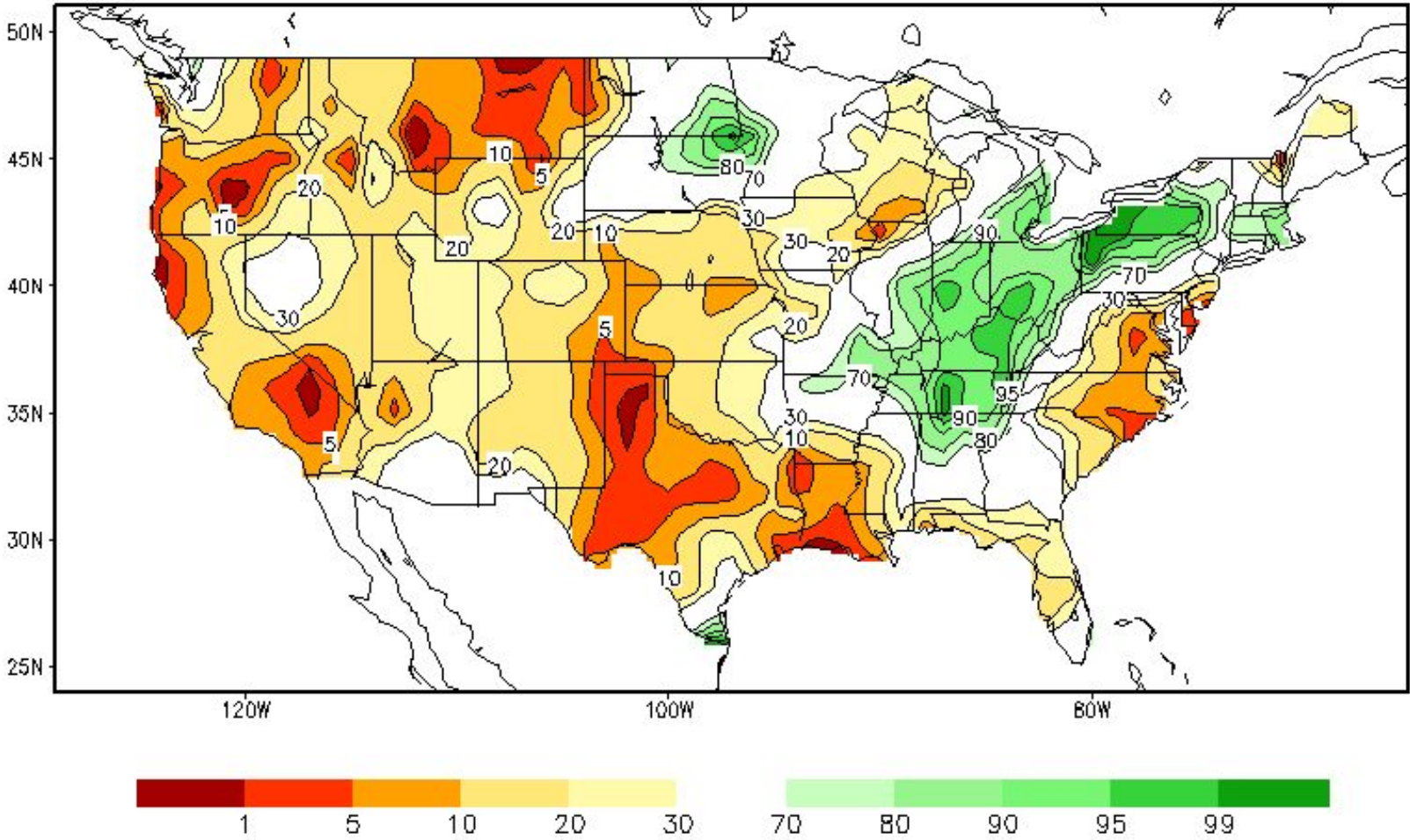




Soil Moisture Percentile

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Calculated Soil Moisture Ranking Percentile
FEB 24, 2022



Near to below normal across Iowa



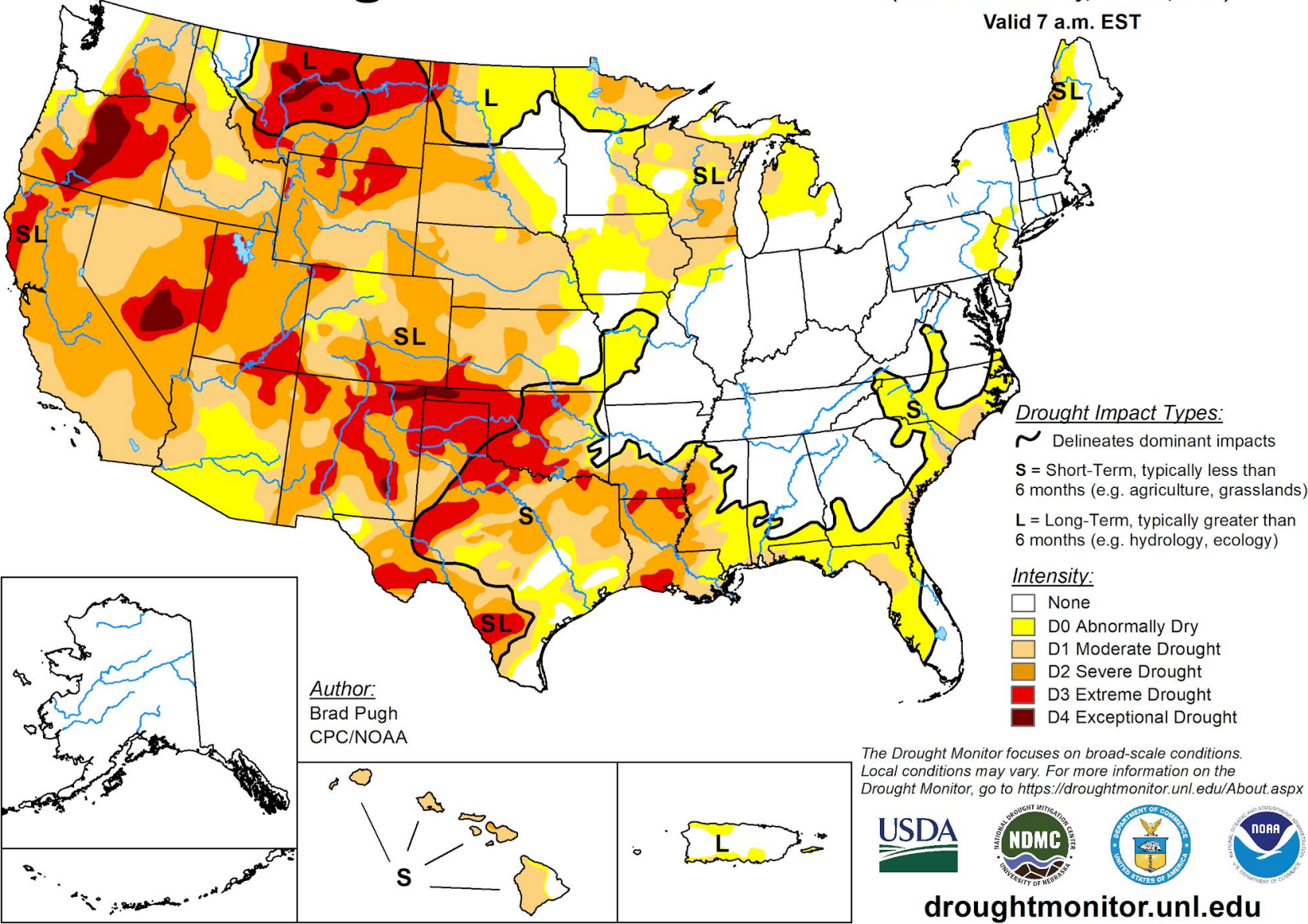


Drought Monitor–National

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U.S. Drought Monitor

February 22, 2022
(Released Thursday, Feb. 24, 2022)
Valid 7 a.m. EST



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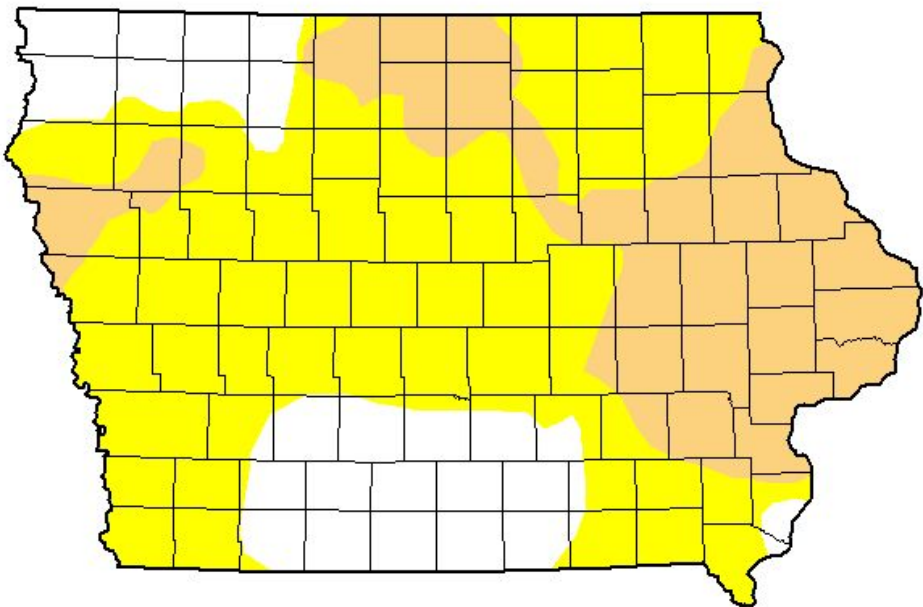
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Drought Monitor-Iowa

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U.S. Drought Monitor Iowa



February 22, 2022
(Released Thursday, Feb. 24, 2022)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	19.54	80.46	27.79	0.00	0.00	0.00
Last Week 02-15-2022	19.16	80.84	27.81	0.00	0.00	0.00
3 Months Ago 11-23-2021	57.58	42.42	13.17	0.00	0.00	0.00
Start of Calendar Year 01-04-2022	50.98	49.02	11.87	0.00	0.00	0.00
Start of Water Year 09-28-2021	24.40	75.60	55.16	18.26	0.00	0.00
One Year Ago 02-23-2021	47.86	52.14	26.95	10.08	2.93	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

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CPC/NOAA



droughtmonitor.unl.edu



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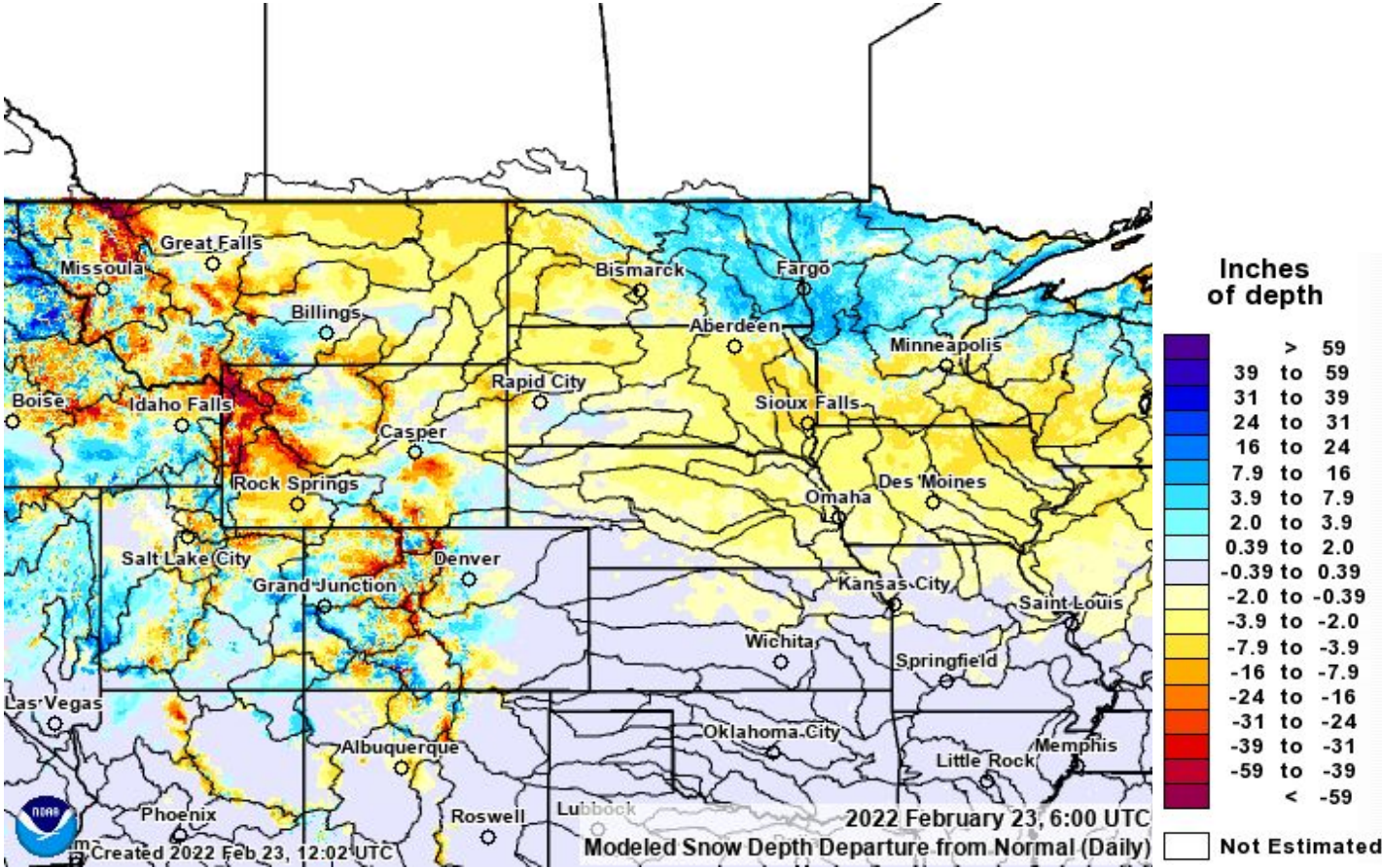
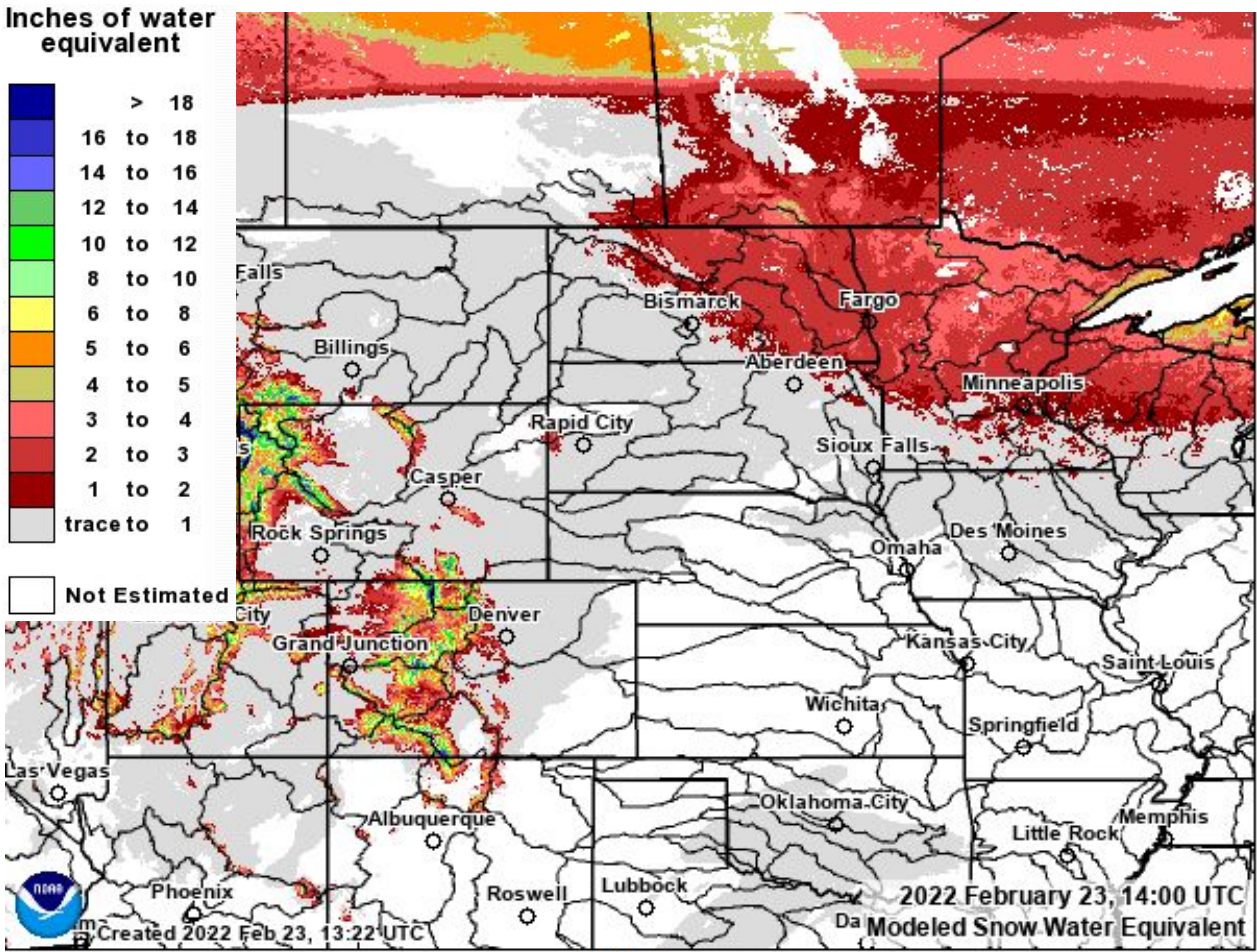
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Snowpack

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Water Equivalent & Depth vs. Normal, 2/23

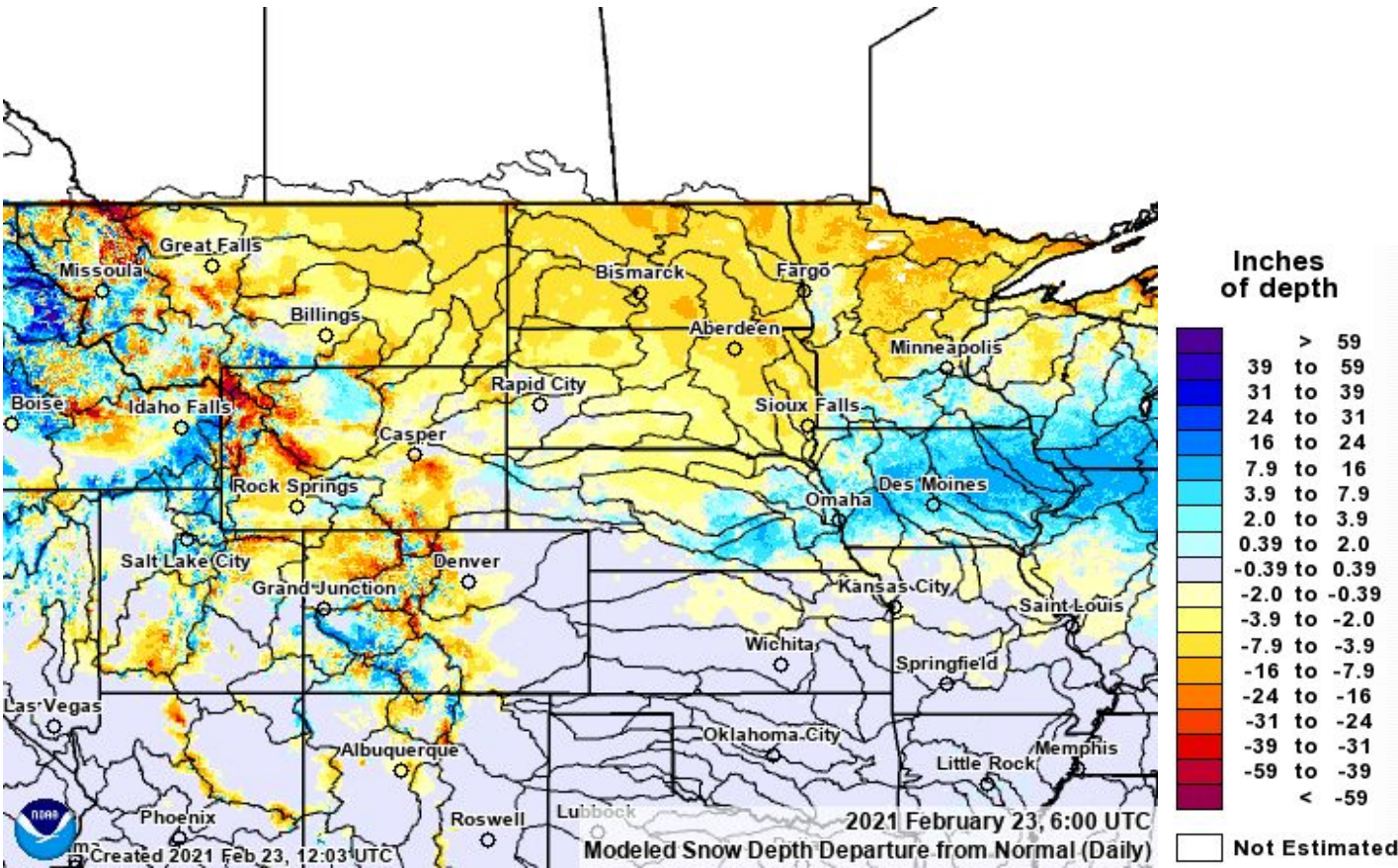
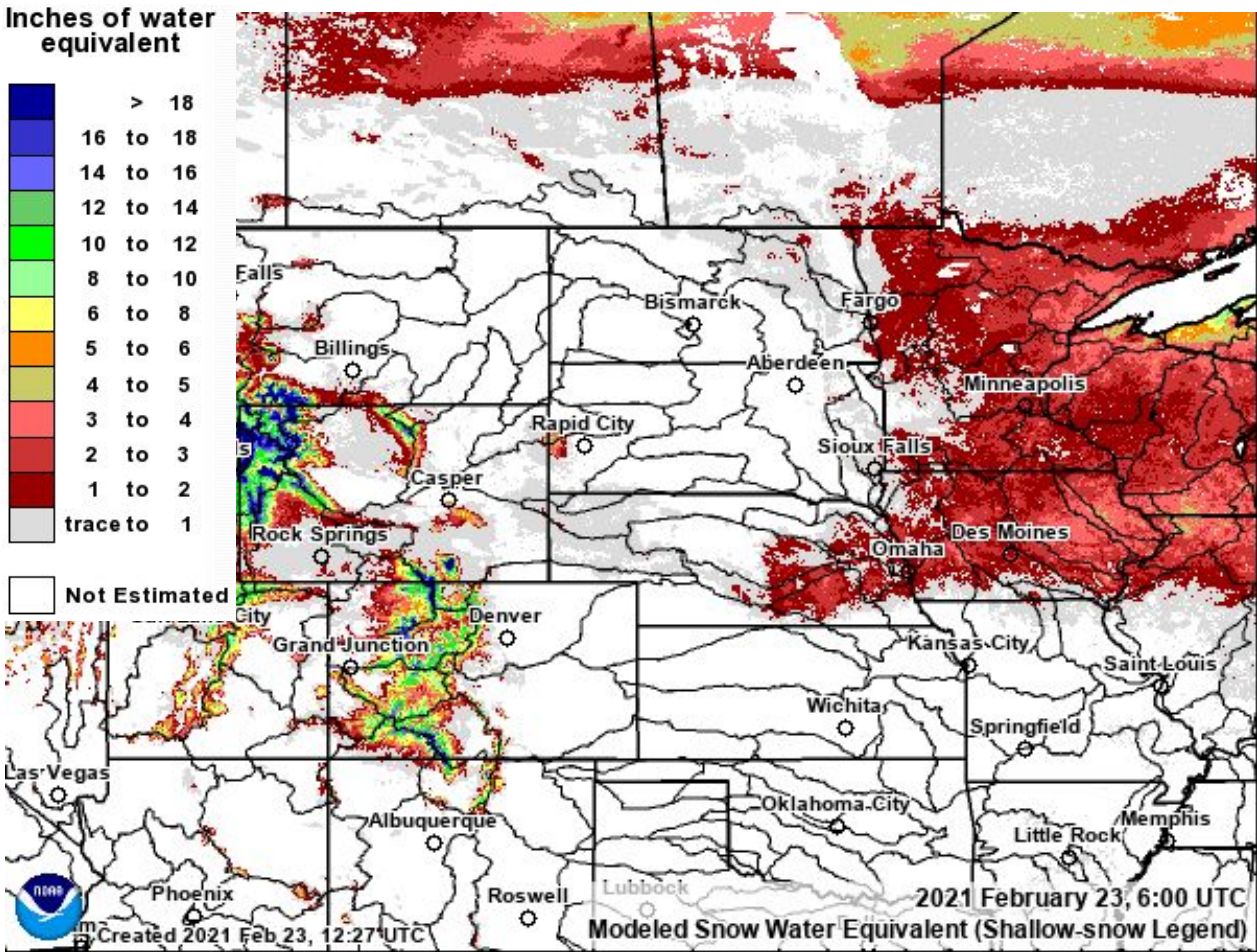




Snowpack

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Water Equivalent & Depth vs. Normal, 2/23/2021

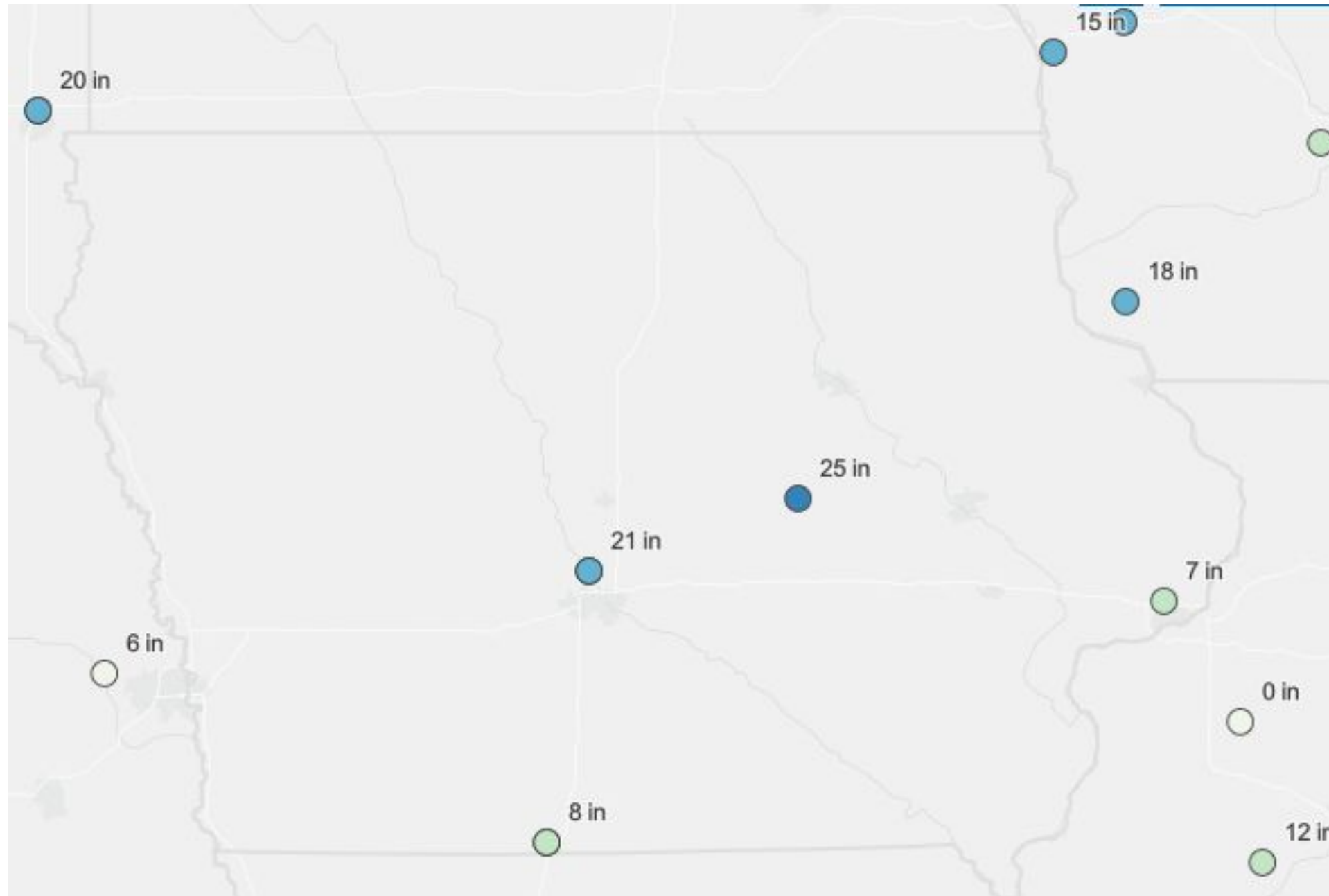




Frost Depth

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Frost Depth on 2/23



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8-14 Day Temperature Outlook

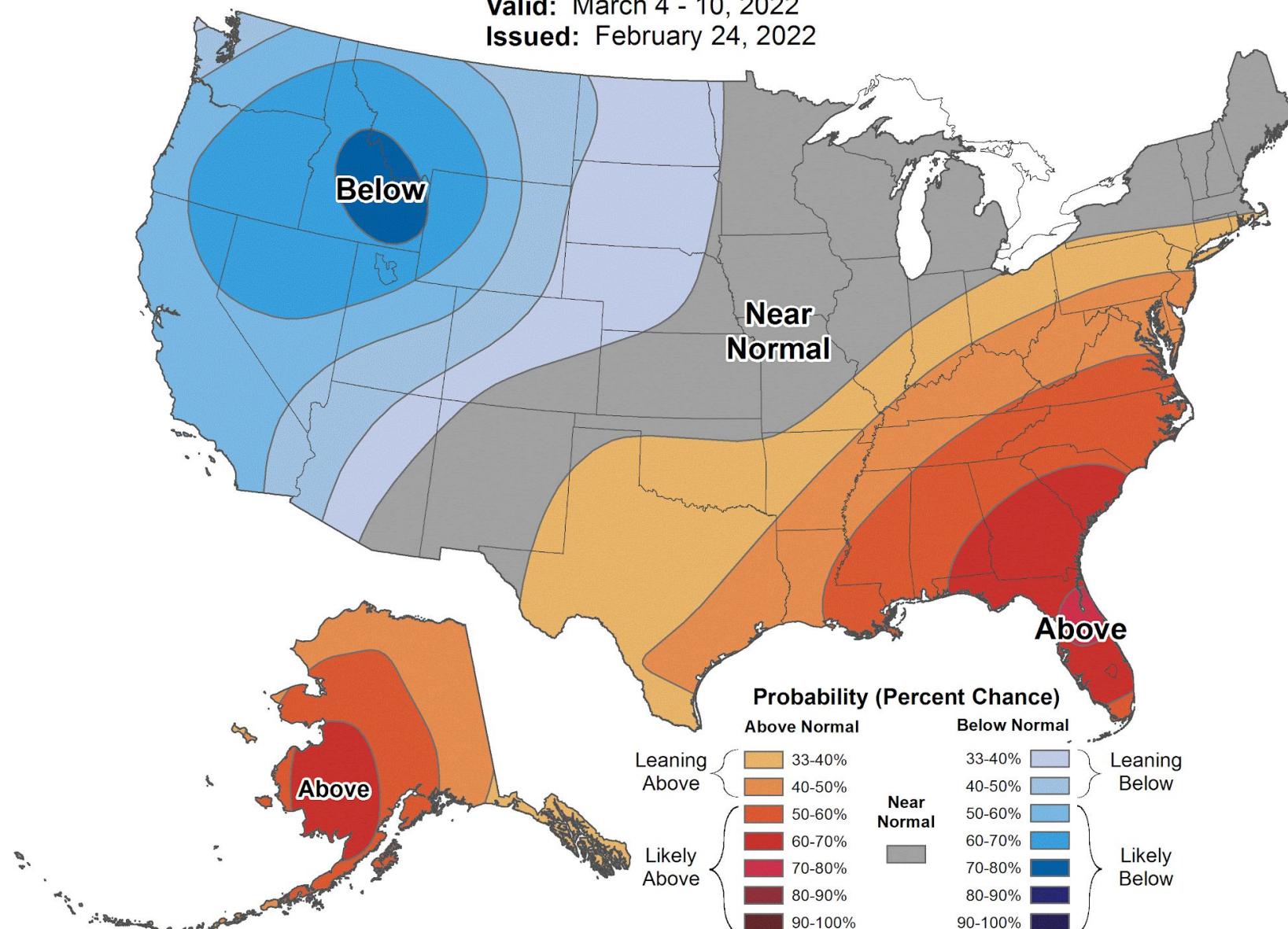
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8-14 Day Temperature Outlook



Valid: March 4 - 10, 2022
Issued: February 24, 2022





8-14 Day Precipitation Outlook

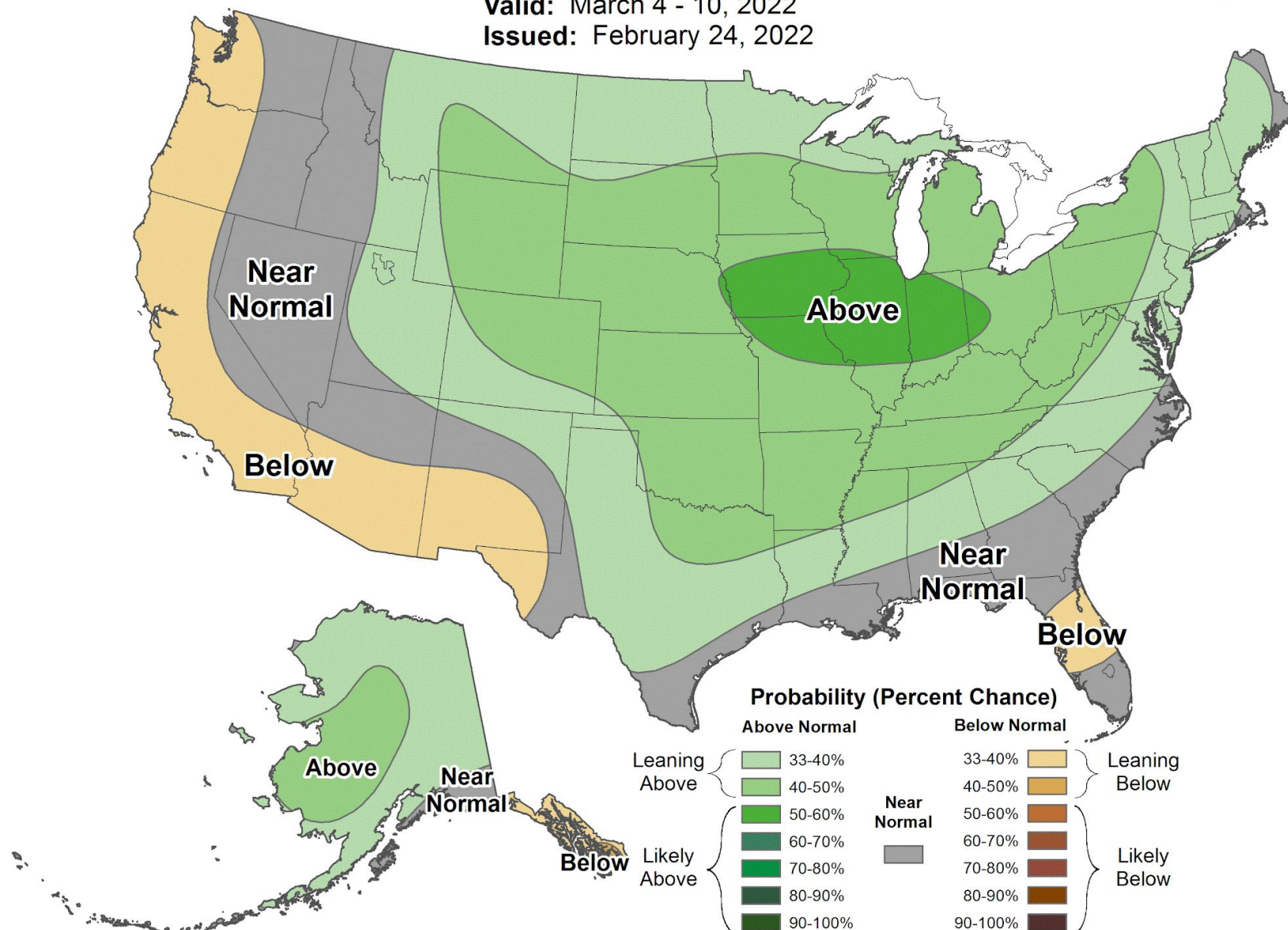
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8-14 Day Precipitation Outlook



Valid: March 4 - 10, 2022
Issued: February 24, 2022





Monthly Temperature Outlook

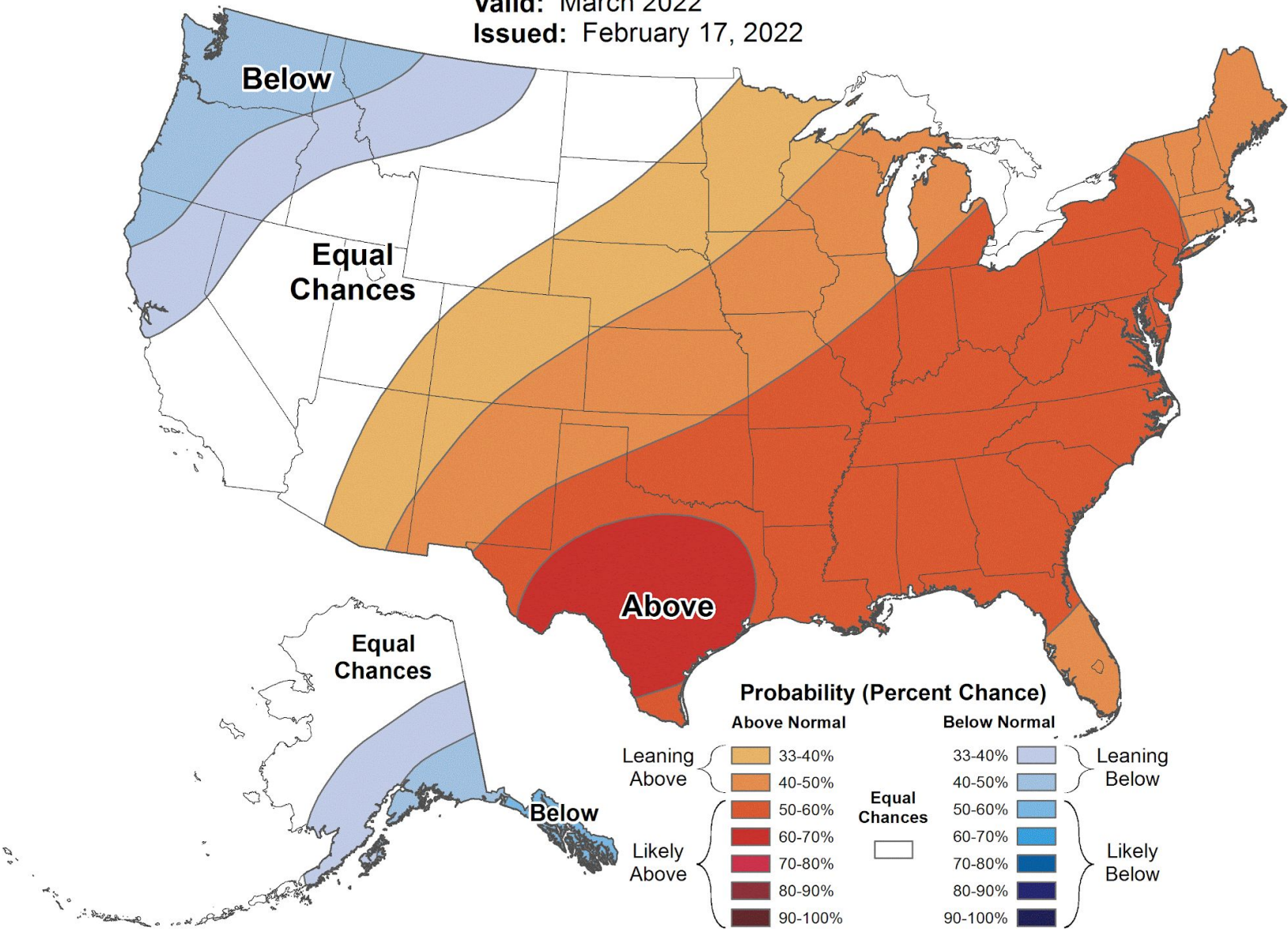
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Monthly Temperature Outlook



Valid: March 2022
Issued: February 17, 2022



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Des Moines, Iowa



Monthly Precipitation Outlook

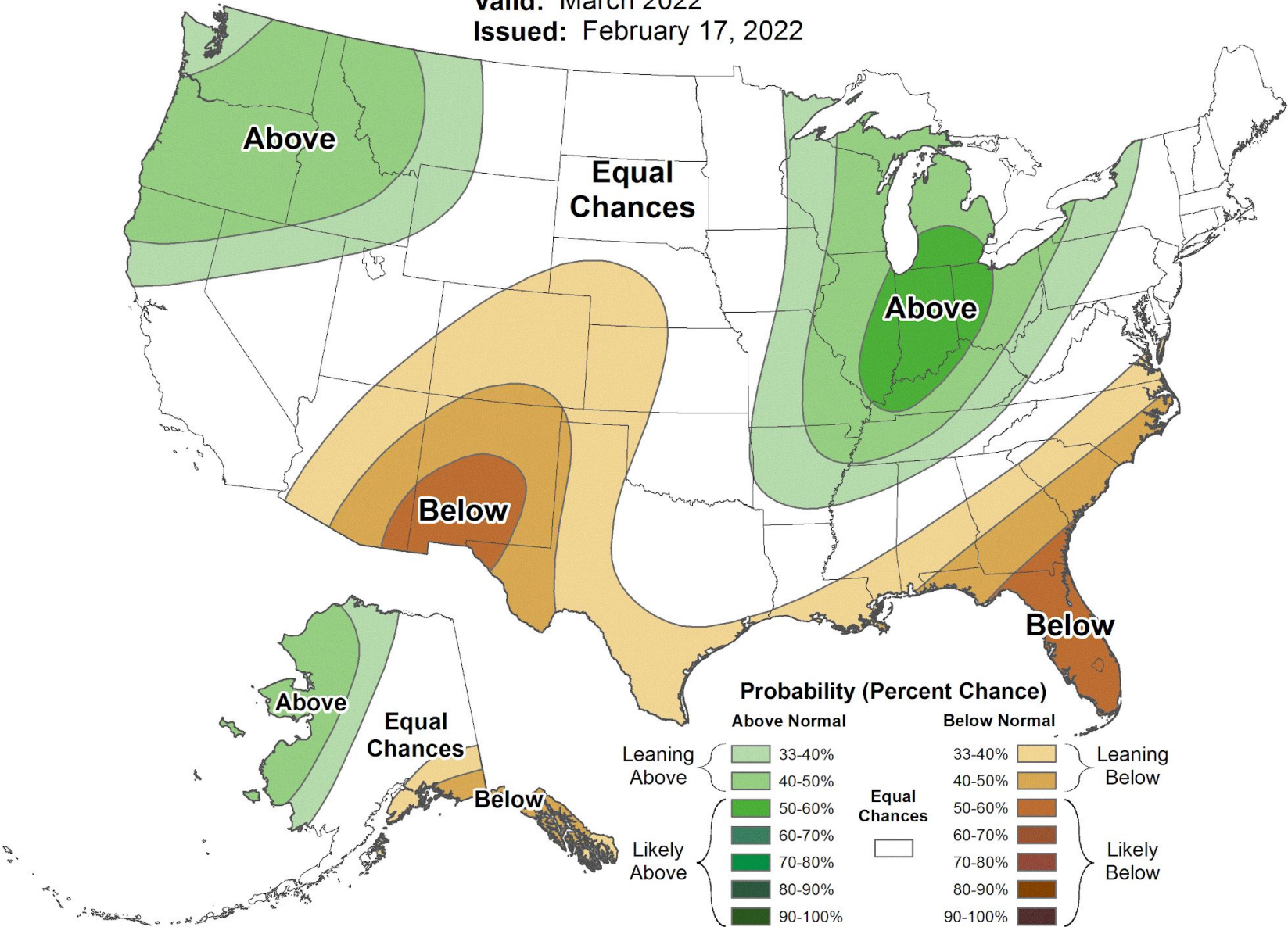
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Monthly Precipitation Outlook



Valid: March 2022
Issued: February 17, 2022



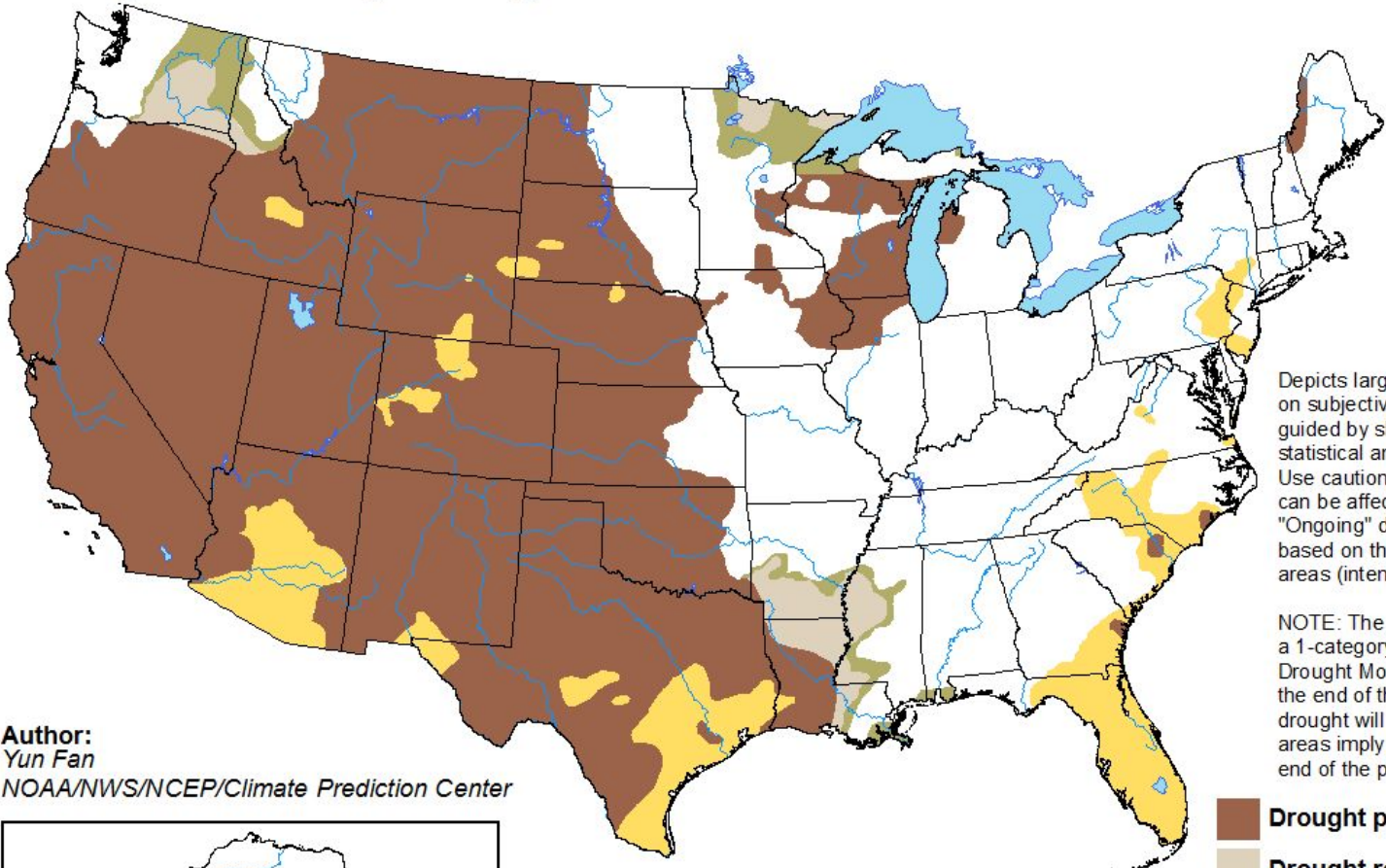


Drought Outlook

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U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for February 17 - May 31, 2022
Released February 17

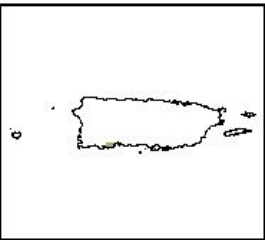
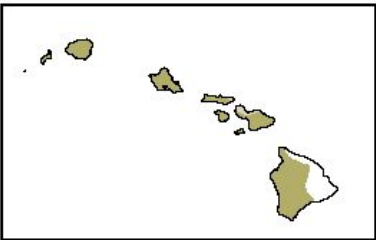
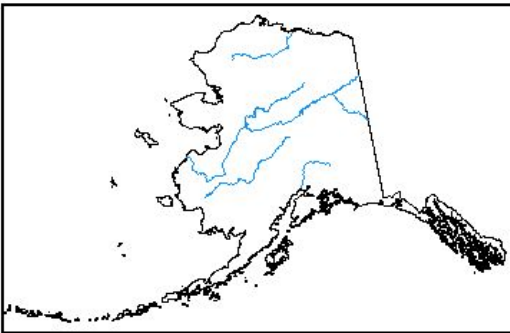


Drought conditions expected to persist

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
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NOAA/NWS/NCEP/Climate Prediction Center



- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>



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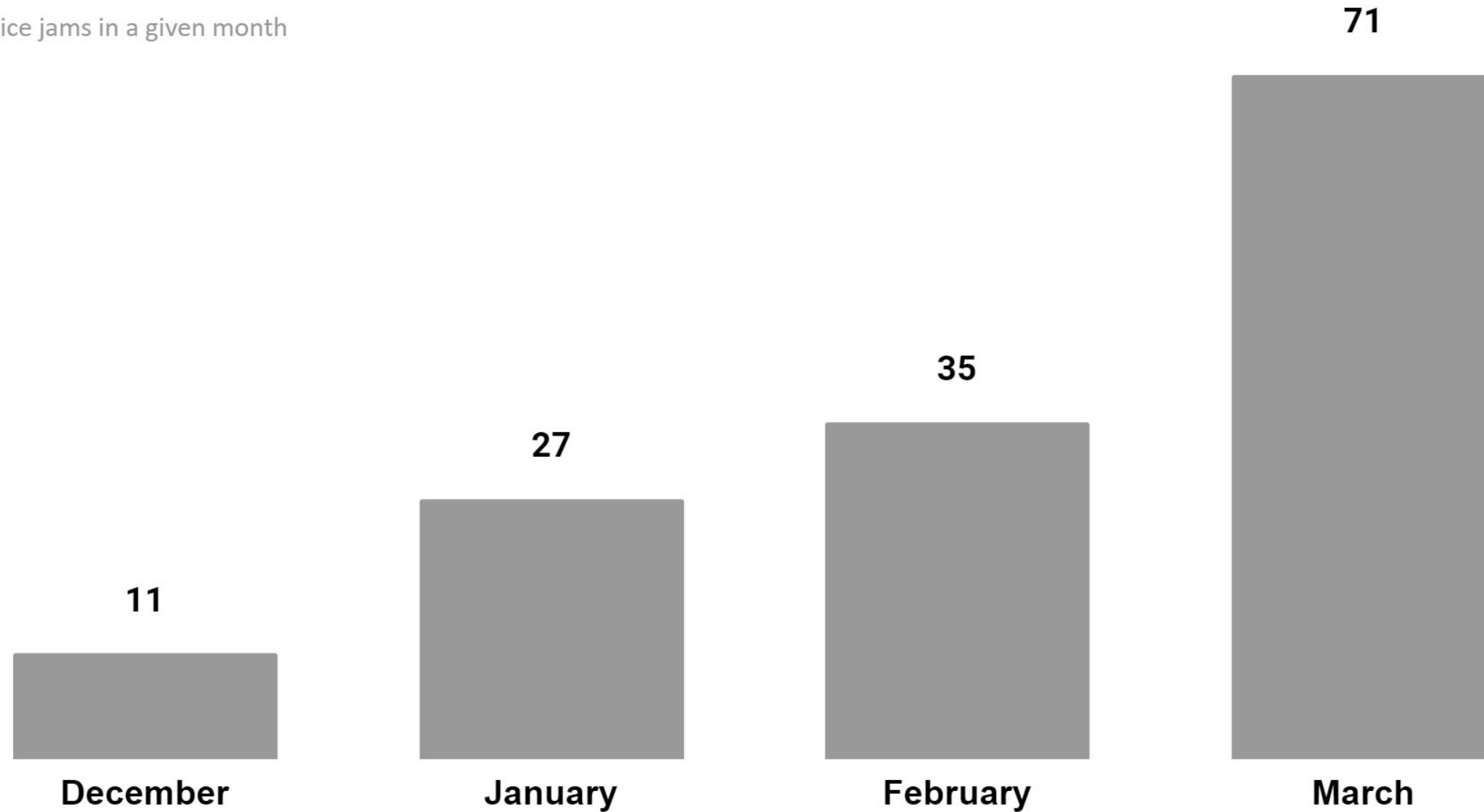
Ice Jam Climatology

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By Month

WFO DMX's HSA Ice Jams by Month (1990-2021)

Number of ice jams in a given month



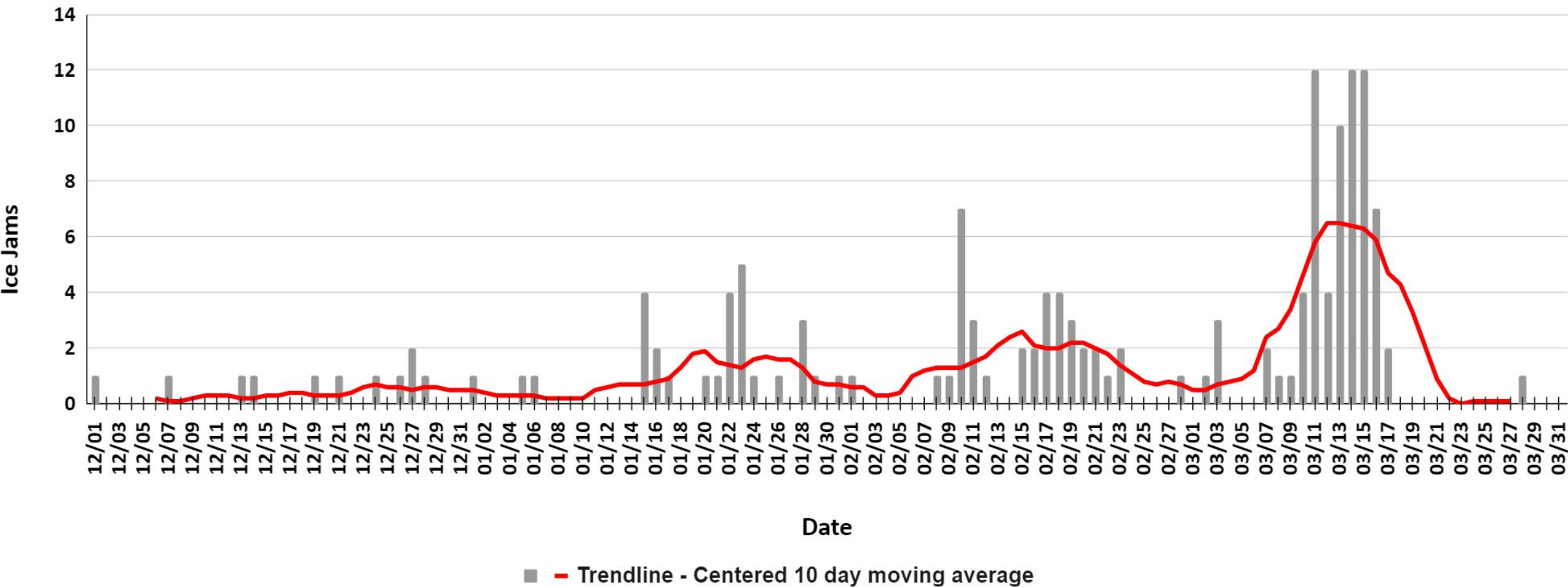


Ice Jam Climatology

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By Date

Ice Jams by Date (1990-2021) in WFO DMX's HSA





Spring Flood Outlook Factors

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As of 2/23

Factor	Contribution to Flood Risk
Streamflow/Stream Levels	Neutral
Soil Moisture	Neutral to Decreased Risk
Snowpack	Neutral; Decreased Risk Western 1/3
Frost Depth	Neutral to Increased Risk
Monthly Temp Outlook	Neutral
Monthly Precip Outlook	Neutral to Increased Risk (especially Eastern Iowa)





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National Weather Service 2022 Spring Flood Outlook Schedule

Thursday, February 10, 2022

Thursday, February 24, 2022

Thursday, March 10, 2022





Thank You

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NWS Offices in Iowa

- Des Moines – 515-270-4501
- weather.gov/desmoines

- Quad Cities, IA/IL – 563-391-6729
- weather.gov/quadcities

- Sioux Falls, SD – 605-330-4247
- weather.gov/siouxfalls

- Omaha, NE – 402-359-5732
- weather.gov/omaha

- La Crosse, WI – 608-784-8275
- weather.gov/lacrosse

